

Humic Aids

Humic acids are the end product of microbial degradation of plant and animal debris and are one of the most important constituents of fertile soils.

Because of its molecular structure, it provides numerous benefits to crop production. It helps break up clay and compacted soils, assists in transferring micronutrients from the soil to the plant, enhances water retention, increases seed germination rates and penetration.

Humic acid is not a fertiliser, but instead a compliment to fertiliser. Humic acids essentially help move micronutrients from soil to plant by increasing the CEC which is explained as an increase in the ability of the soil to retain and exchange nutrient cations.



Water Storage Crystal

The water storage crystal processes potassium based organic cross-linked copolymers. It has the properties to absorb up to 500 times its weight in water and expand to form an insoluble gel substance.

What separates this water storage crystal from other products is that it has the property of easily releasing and re-absorbing the absorbed water and nutrients, therefore allowing the plant to have water and nutrients available at will as a function of the absorption release cycle.

Other specialist products in the Nuturf Australia range:

STAMINA

Range of soil wetting agents to ensure effective application of irrigation water & soil profile moisture management.

stamina[®]

FAIRWAY MAX MINI FERTILISER RANGE

Premium Controlled release fertilisers for low cut turf.

NUTURF
fairway
MaxMini
DUAL CONTROLLED RELEASE NITROGEN

FOLIMAX RANGE

Liquid nutrition at its best. Nuturf's FoliMAX Range of liquid nutritional and biostimulant products are premium, Australian made formulations designed specifically for the Australian Turf Market.

NUTURF
FoliMAX

SMART START

PRE PLANT ECO-FERTILISER

EXTENDED NUTRIENT FEEDING · WATER STORAGE POLYMERS
· MINIMUM TRANSPLANT LOSS



SMART START - The best possible start for trees, potted plants, turf grass or any living greenery.

- Laying turf grass sod
- Seeding turf grass or pasture seed
- Potting & repotting plants
- Ornamental garden beds / rose beds
- Landscaping
- Native planting
- Revegetation tree planting

SMART START is a unique formulation which provides the best possible start to trees, potted plants and turf. The formulation consists of proven eco-fertilisers (Nutri-Smart) Organic Complex + Methylene Urea for extended slow release feeding and water storage crystals (Aquasorb).

SMART START is an ideal pre-planting / transplanting supplement for plants and turf. Once incorporated into the soil or potting medium and irrigated, SMART START immediately goes to work by holding water and nutrients in the root zone for optimal absorption, enhancing establishment and growth.

BENEFITS:

- Reduces transplant losses.
- Increases the Water Holding Capacity of soil for up to 5 years. Irrigation frequency may be reduced by up to 50%.
- Increases root mass of plants for better stress tolerance / disease resistance and nutrient utilisation.
- Increases shoot density of plants.
- Increased soil microbial activity for enhanced organic matter breakdown and nutrient cycling.
- Improves the physical properties of compact soils through aeration aiding in better soil structure.
- Protects the environment from leaching and decreases total fertiliser output by 15-30%.

SMART START COMPONENTS

Slow Release Nitrogen

SMART START contains methylene urea which provides controlled release nitrogen feeding. The distinguishing characteristics of methylene urea products versus all other nitrogen fertilisers are their availability through the action of soil micro-organisms.

The shorter-chained water-soluble polymers are readily digestible by soil micro-organisms and release nitrogen to the soil as ammonium in a relatively short period of time. Some urea, naturally accompanying the short-chained methylene urea polymers, creates an early or immediate plant response. Residual activity from these soluble components promotes colour and growth responses in the initial four-to-six weeks following application.

The longer-chain polymers contain water-insoluble nitrogen, which is more slowly digested by soil micro-organisms. Unlike Isobutylaldehyde Diurea and Sulfur Coated Urea where nitrogen goes back to the soil as urea, nitrogen from methylene urea is converted directly back to the ammonium form gradually throughout the growing season.

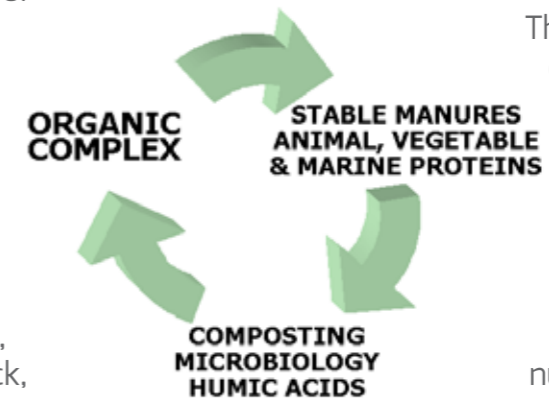
Principal Characteristics of Methylene Urea:

- Supplies nitrogen gradually
- Nitrogen release through microbial action
- Reduced fertiliser losses from leaching
- Low salt index, non-burning
- No degradation during blending and application
- Not dependent on coating or particle size for release

Eco-Fertiliser

Nutri-Smart

Each granule is composed of specially selected natural ingredients, including phosphate rock, weathered coal (lignite), yeasts and other growth materials.



The granules act as 'biological sites' which, once incorporated into the soil, become activated and start fixing N from the atmosphere, decomposing P from the phosphate rock and making insoluble P and K in the soil available on demand to the plant.

Organic Complex

The organic complex is a blend of organic material, cattle manure, chicken manure, animal and vegetable proteins, seaweed kelp, fish meal plus microbial formulations. The complex provides a diverse food source to stimulate microbes and offer continued nutrient cycling for the plant.

**SMART START
Pre Plant Eco-Fertiliser
12 - 1 - 2 + TE**

GENERAL DESCRIPTION

Ideal for planting trees and ornamentals, potted plants and laying/seeding turf grass.

The quantity of Smart Start is determined by the size of the original pot the plant is being transplanted from and/or the amount of disturbed soil or potting mix.

DIRECTIONS FOR USE:

* Transplants and Potted Plants: Incorporate Smart Start into the planting soil or potting mix prior to planting. Water plant thoroughly after transplanting.

** Turf Grass : Incorporate Smart Start into the top 25 - 50mm of soil or apply evenly before laying sod.

GUARANTEED MINIMUM ANALYSIS Wt/Vol

Nitrogen (N) as Organic	0.5%
Nitrogen (N) as Amonical	4.0%
Nitrogen (N) as Nitrate	0.5%
Nitrogen (N) as Urea	4.2%
Nitrogen (N) Water Insoluble	2.8%
Total Nitrogen (N)	12%
Phosphorous	1.2%
Potassium	2.8%
Sulfur	7.5%
Calcium	3.8%
Magnesium	1.0%

APPLICATION RATE CHART

In ground Transplanting *	Potted Plants *	Turf Grass **
25g / per plant. Based on 5 L planting hole.	25g / per 5L Potting Mix.	5KG / 100sqm

* 5 g per tube stock

Pack Size 8 kg

